**Innovation, Engagement, Connection**

**Lesson plan for Density (four days)**

Goal 11.A, 12.C

O - To use knowledge of density to classify materials and separate a mixture

P – For introduction and practice calculating density, students will complete the Internet Density Activity (Gizmos from www.explorelearning.com)

- guide students to the relationship (or not) between mass, volume, density, and floating/sinking

A & H– activity sheet

P – Review with students how to use a graduated cylinder and a scale

- Students will determine the volume, mass, and density of a variety of irregular shaped objects

A – Data table

H - None

P – Review and correct homework

- calculating density and using critical thinking skills students will classify a set of cubes made of different materials

A – Completed classification table

H – None

P – Student will complete the Mixture Separation Challenge

A & H – Separation Challenge

[www.explorelearning.com](http://www.explorelearning.com) offers a free 30 day trial and will often times extend that. There are a lot of online lab simulations. It is worth trying out with the free trial.